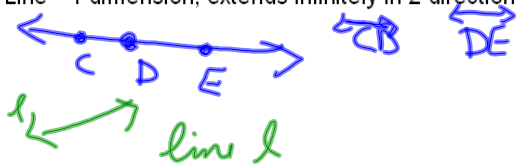


## 1.3 Points, Lines, and Planes

Point—no dimension; represented by a dot

A •      • B

Line—1 dimension; extends infinitely in 2 directions



Plane—2 dimensions; extends in 4 directions



Name by 3 points or **bold** letter in corner

plane XYZ  
plane P

Sep 7-2:22 PM

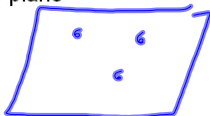
Sep 7-2:24 PM

Postulate—statements accepted as true

Postulate 1—through any 2 points there is exactly 1 line



Postulate 2—through any 3 non collinear points there is exactly one plane



Collinear points—points on the same line



Coplanar points—points on the same plane

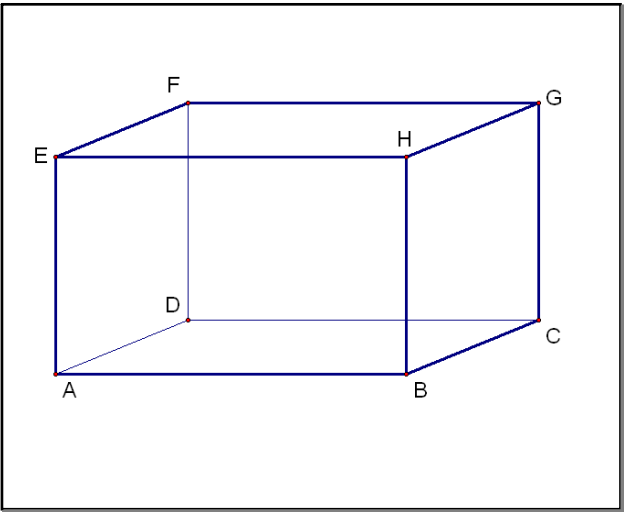
pts F, E, & H

Coplanar lines—lines on the same plane

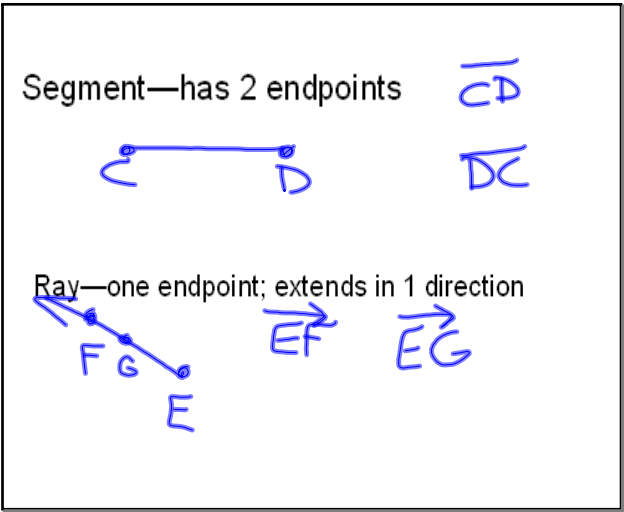
$\overleftrightarrow{FE}$  &  $\overleftrightarrow{FG}$  are coplanar

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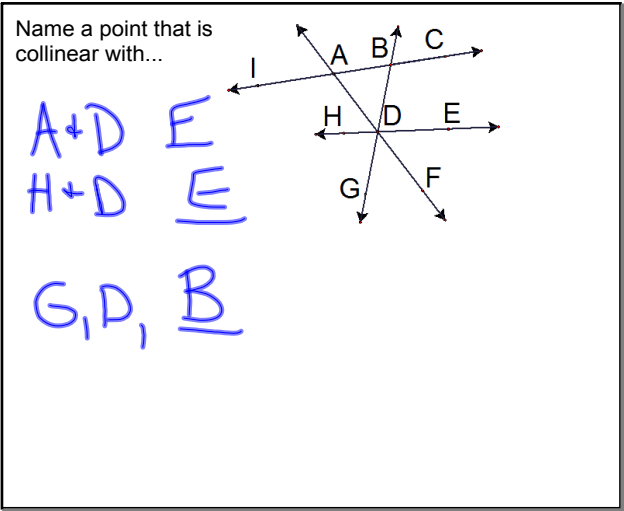
Sep 7-2:25 PM



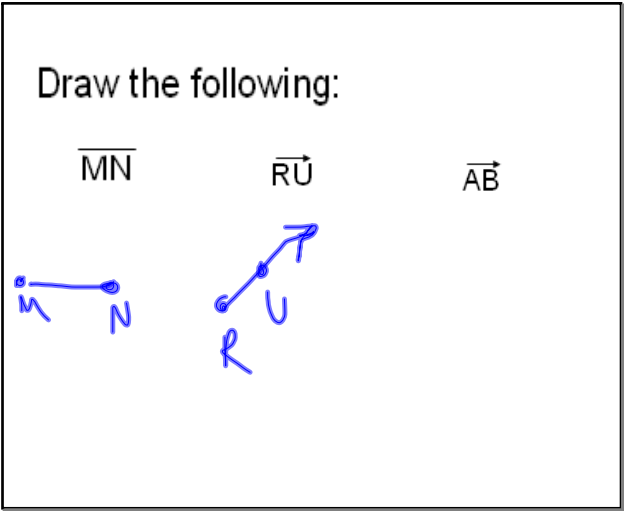
Sep 7-2:28 PM



Sep 7-2:25 PM



Aug 22-10:06 AM



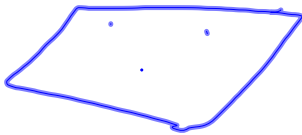
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3 collinear points



Sep 7-2:29 PM

3 coplanar points



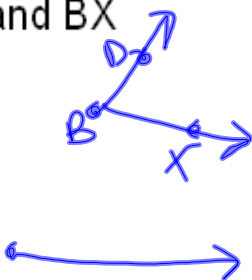
Sep 7-2:30 PM

3 non collinear points



Sep 7-2:30 PM

$\overrightarrow{BD}$  and  $\overrightarrow{BX}$



Sep 7-2:30 PM

$\overleftrightarrow{YS}$  with point E between Y & S

Together:

p15 #s 1-6

p17 #s 3-14

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Sep 7-2:33 PM



Homework:

p.17-18

#s 15-26, 27-33 odd, 35-41, 46, 47, 54-57



Sep 7-2:34 PM